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(21)Application number : 10-265035 (71)Applicant : LUCENT TECHNOL INC

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## (54) COMMUNICATION SYSTEM

(57)Abstract:

**PROBLEM TO BE SOLVED:** To realize an adaptive system to improve data throughput by dynamically adjusting procedures of modulation, encoding, interleave and retransmission of a data link according to a channel condition like phasing.

**SOLUTION:** In a system to adaptively change a modulation system of a communication system, adaptive channel encoders and modulators 60, 76 of a transmitter are connected with channel decoder and demodulators 62, 78 of a receiver through communication channels 48, 50 and a system of encoding and demodulation of the adaptive channel encoders and modulators 60, 76 of the transmitter is controlled by radio link protocol frames and channel judging units 58, 74. The adaptive channel encoders and modulators 60, 76 are adaptively operated based on information from channel quality measuring units 90, 100 connected with the channel decoders and demodulators 62, 78.

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